



PATENT ABSTRACTS OF JAPAN

(11) Publication number: 04229779 A

(43) Date of publication of application: 19.08.1992

(51) Int. Cl. H04N 5/10
H04N 5/04

(21) Application number: 03125343
(22) Date of filing: 26.04.1991
(30) Priority: 30.04.1990 US 90 513445

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(54) **DEVICE FOR DISCRIMINATING WHETHER
SYNCHRONIZING COMPONENT OF
TELEVISION SIGNAL IS EFFECTIVE OR NOT**

(57) Abstract:

PURPOSE: To detect the appropriate tuning of a television picture by using a microcomputer.

CONSTITUTION: A tuning system includes a synchronization signal detector using a microcomputer which requires no hardware timer/counter. A microcomputer 117 samples the output signal of a synchronization signal separator 111 connected to a normal input/output port 143. In numerous different evaluation periods to discriminate whether or not each characteristic of an effective synchronization signal is generated. A test is performed in one evaluation period to discriminate whether or not a high level exists for a time shorter than a given time, for example, 10ms corresponding to the maximum duration of a horizontal synchronizing pulse. In another evaluation period, a test is performed which discriminates whether or not a low level exists for a time longer than a given time,

for example, 40ms corresponding to the minimum interval of horizontal synchronization pulses. Sampling intervals and evaluation times are set according to the time required for the execution of an instruction cycle.

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